PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					"ANS!		
То:						PCT	ANSLATTON
						RITTEN OPINION (IONAL SEARCHIN (PCT Rule 43bis.	OF THE NG AUTHORITY
					Date of mailing (day/month/year)	See Form (sheet 2)	PCT/ISA/210
Applica	nt's or age	nı's file referenc	ee		FOR FURTHER		
EH0	675-1	NO				See paragraph 2 below	
Internat	ional appli	cation No.		International filing date	1 (day/month/year)	Priority date (day/mon	nth/year)
PCT				28.12.2004		08.01.200	4
	B19/		i (IPC) or both	national classification ar	id IPC		
Applica END		HAUSER	GMBH+C	CO. KG			
<u> </u>	This opi	nion contains ir	dications rela	ting to the following item	s:		
	\square	Box No. I		-			
	一		Basis of the	ортшоп			
		Box No. II .	Priority				
		Box No. III	Non-establis	shment of opinion with re	gard to novelty, invent	ive step and industrial a	pplicability
		Box No. IV		ty of invention		·	
		Box No. V		atement under Rule 43bis y; citations and explanatio			or industrial
		Box No. VI	Certain docu	uments cited			
	Ц	Box No. VII	Certain defe	ects in the international ap	plication		
		Box No. VIII	Certain obse	ervations on the internatio	nal application		
2.	FURTI	IER ACTION					
	Internati than this	ional Preliminat sone to be the	y Examining . IPEA and the	Authority ("IPEA") excep	ot that this does not applicational Bur	ply where the applicant	a written opinion of the chooses an Authority other (b) that written opinions of
	written	reply together,	where approp	, considered to be a writte priate, with amendments, rof 22 months from the pr	before the expiration	of 3 months from the	ed to submit to the IPEA a c date of mailing of Form
	For furt	her options, see	Form PCT/IS.	√22 0.			
3.	For furt	her details, see i	notes to Form	PCT/ISA/220.		•	
Name a	nd mailing	address of the	ISA/EP		Authorized officer		
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					Talaskana Na		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/EP2004/053714

Вс	x No. 1	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed and not not not necessary to the claimed and necessary to the claimed and necessary to the claimed not not necessary to the claimed not not necessary to the claimed necessary to the ne
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material .
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	itional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/053714

Bo			ale 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; pporting such statement	
i.	Statement			
	Novelty (N)	Claims	3,7	YES
		Claims	1,2,4-6,8-10	NO
	Inventive step (IS)	Claims		YES
		Claims	1-10	NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO
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- 2. Citations and explanations:
 - 1. Reference is made to the following documents:
 - D1: WO 00/77592 A (THE FOXBORO COMPANY) 21
 December 2000 (2000-12-21)
 - D2: US 2002/103946 A1 (GAISER MARTIN) 1 August 2002 (2002-08-01)
 - 2. As regards independent method claim 9
 - 2.1 It would appear from the description of the present application (paragraphs [0019], [0032], [0036], [0037]) that the feature that the two data transmission techniques are simultaneously used on the same signal line is essential to the definition of the claimed system.

Since independent claim 9 does not expressly contain this feature, it does not meet the requirement of **PCT Article 6** in conjunction with PCT Rule 6.3(b) that each independent claim must include all the technical features essential to the definition of the invention.

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 2.2 It should also be noted that the use of an existing signal line to use a new data transmission technique that allows a higher data transmission rate is disclosed in the prior art (D1, page 58, lines 24-29).

 Therefore, the present application does not satisfy the criterion in PCT Article 33(2) because the subject matter of independent method claim 9 is not novel in relation to the prior art as defined in the Regulations (PCT Rule 64.1 to 64.3).
- 3. In addition, the modernization method which was described in the description of the present application and which independent method claim 9 attempts to define does not involve an inventive step (PCT Rule 65.1, 65.2).

In order to assess the inventive step, it is even assumed that the essential feature (9f) (see below) has already been included in claim 9.

- D1, which is regarded as being the closest prior
 art, discloses a method:
- 9a) for modernizing a process system having a plurality of field devices which interchange data with a control room via a signal line (figures 1-3; page 52, lines 25-28 with page 49, lines 9-22),
- 9b) $\underline{\text{all}}$ of the older field devices which transmit data to the control room W

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

in accordance with a first transmission technique (field devices with the "HART protocol", page 49, lines 15-25)

- 9d) being replaced (page 52, line 25 page 53, line 3; page 56, lines 8-13)
- 9e) the data being transmitted in accordance with the second transmission technique in a separate channel on the existing signal line (implicit, HART: 1.2 kbps; Ethernet: 10 Mbps; page 50, lines 1-2, page 52, lines 5-8).

However, D1 does not disclose:

9f) that the two data transmission techniques are simultaneously used on the same signal line

since all of the older field devices were replaced in D1.

The problem addressed by the present application can therefore be considered that of minimizing the costs of modernization.

As a solution to this problem ([0002]-[0005] in D2), D2 discloses the use of field devices with different protocols on the same bus system (claims 1-3, [0020]-[0021] in D2). In other words, D2 discloses the essential feature that was not disclosed in D1.

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Since the same advantages as in the present application are mentioned in D2 as regards said feature, a person skilled in the art would consider the inclusion of this feature, together with the features (9a)-(9e) (see above), in a modernization method to be a routine measure for solving the problem of interest.

Therefore claim 9, and the entire modernization method disclosed in the description of the present application, does not satisfy the criterion in \rPCT Article 33(3).

- 4. A process system according to <u>independent apparatus</u>
 <u>claim 1</u> does not satisfy the criterion in PCT
 Article 33(3) and PCT Rule 65.1, 65.2 since such a system directly results from carrying out the obvious modernization method from claim 9.
- 5. <u>Independent method claim 10</u> was formulated so broadly that its subject matter was disclosed by a plurality of documents (see documents in the international search report).
 - **D2** discloses a method for communicating in a process system having a plurality of field devices, an existing signal line being <u>simultaneously</u> used for a first transmission technique and for a second transmission technique (claims 1-3, [0020]-[0021] in D2).

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	The subject matter of claim 10 is therefore not
	novel (PCT Article 33(2), PCT Rule 64.1 to 64.3).
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